

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-034184

(43)Date of publication of application : 09.02.1999

(51)Int.Cl.

B31B 1/25

B26F 1/40

(21)Application number : 09-190108

(71)Applicant : ZENSHINDOU KOGYO KK

(22)Date of filing : 15.07.1997

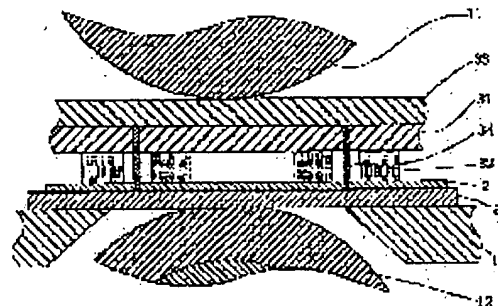
(72)Inventor : KUWABARA HIDEO

## (54) PAPER-WARE PUNCHING MACHINE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a small, lightweight paper ware punching machine to be used simply just for punching of one sheet and also used for a laminate processing, in which the punching preparation is extremely easy and the registering for the position to be punched is also extremely easy.

**SOLUTION:** A punching machine is provided with a cutting die and a roller press for pressing the cutting die. In that case, the cutting die 30 is provided with a belt-shaped cutting blade 32 formed into the paper-ware punching shape, a transparent base 31 for retaining the blade with its edge protruded, a transparent press plate 33 stuck on the back of the base and an elastic member 34 formed higher than the edge section of the protruded cutting blade, while the roller press is provided with an upper roller 11 with its surface formed of a rigid body, a lower roller 12 with its surface formed of an elastic body and a driving means for rotating the lower roller. A paper ware, therefore, is punched by inserting the paper ware and the cutting die through the inside of the roller press.



BEST AVAILABLE COPY

## LEGAL STATUS

[Date of request for examination]

21.04.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office

## BEST AVAILABLE COPY



(19)

(11) Publication number:

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: 03034156

(51) Intl. Cl.: B26D 7/18 B26F 1/44

(22) Application date: 28.02.91

(30) Priority: 27.04.90 JP 40211230

(43) Date of application  
publication: 07.08.92(84) Designated contracting  
states:

(71) Applicant: NIPPON DAISUCHIIE KK

(72) Inventor: TAKEUCHI TAKAYUKI

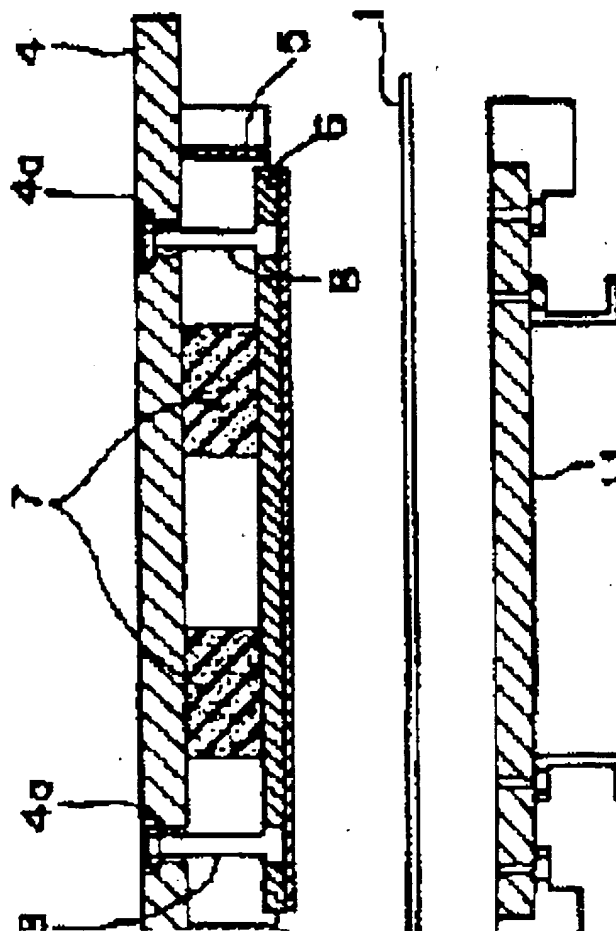
(74) Representative:

**(54) DIE USED FOR  
PAPERWARE PUNCHING  
DEVICE**

(57) Abstract:

**PURPOSE:** To cut a punching paper in the state of its holding surely, by fitting a die plate to a substrate via an elastic body only, and fixing a guide plate to the necessary place of the die plate back face so as to be able to move along the inner face side of a projection member.

**CONSTITUTION:** A paperware punching device executes the cutting run along the punching line of a punching paper 1, with a male die 10 and female die 3. On this male 10 and female die 3, die plates 11, 6 interposing the both upper and lower faces of a punching product part or a punching chip are provided respectively. This die plate 6 is supported on the substrate 4 of the female die 3 via an elastic body 7, and becomes movable vertically along a guide shaft 8. Also, a projection member 5 is arranged at the necessary place of the substrate 4, a sliding guide plate is provided on the die plate 6 further, to guide the vertical movement of the die plate 6. Consequently, cutting can be executed in the state of the punching paper being held surely, also the inconvenience at the light weighing and motion time of the die can be eliminated.



COPYRIGHT: (C)1992,JPO&amp;Japio



## BEST AVAILABLE COPY



(19)

(11) Publication number:

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: 09190108

(51) Intl. Cl.: B31B 1/25 B26F 1/40

(22) Application date: 15.07.97

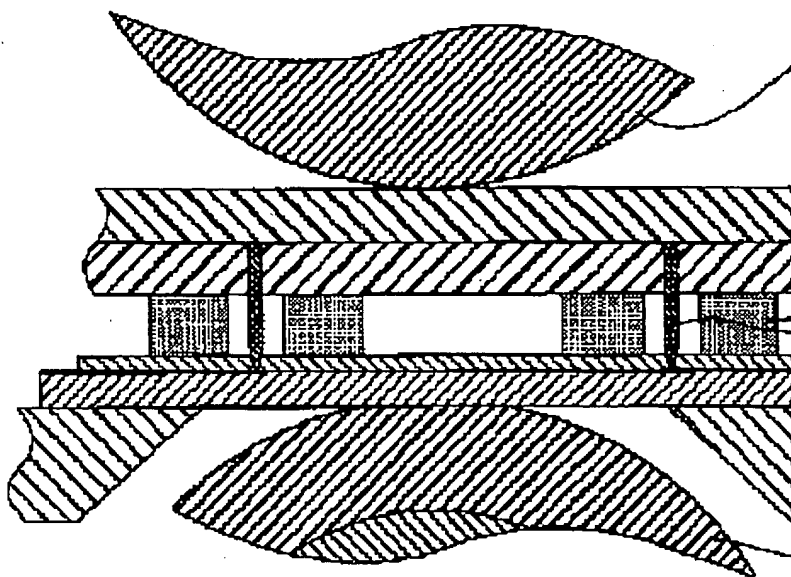
(30) Priority: (43) Date of application publication: 09.02.99 (84) Designated contracting states:	(71) Applicant: ZENSHINDOU KOGYO KK (72) Inventor: KUWABARA HIDEO (74) Representative:
---	--

**(54) PAPER-WARE PUNCHING MACHINE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a small, lightweight paper ware punching machine to be used simply just for punching of one sheet and also used for a laminate processing, in which the punching preparation is extremely easy and the registering for the position to be punched is also extremely easy.

**SOLUTION:** A punching machine is provided with a cutting die and a roller press for pressing the cutting die. In that case, the cutting die 30 is provided with a belt-shaped cutting blade 32 formed into the paper-ware punching shape, a transparent base 31 for retaining the blade with its edge protruded, a transparent press plate 33 stuck on the back of the base and an elastic member 34 formed higher than the edge section of the protruded cutting blade, while the roller press is provided with an upper roller 11 with its surface formed of a rigid body, a lower roller 12 with its surface formed of an elastic body and a driving means for rotating the lower roller. A paper ware, therefore, is punched by inserting the paper ware and the cutting die through the inside of the roller press.



COPYRIGHT: (C)1999,JPO